#### 2015 - 2016



## Preparation & Standardization of 0.1 N NaOH Solution

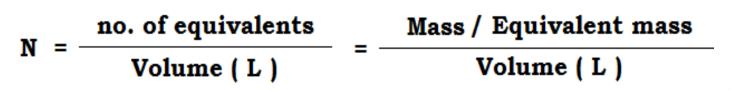
Assistant Lecturer

Sahar Mohammed Shakir Assistant Lecturer Rana Adel Kamoon

Assistant Lecturer

Mohammed Abdul-Amir

#### How could you prepare one liter of N/10 NaOH solution? Knowing that the atomic masss of : Na = 23, O = 16 and H = 1.



 $0.1 = \frac{Mass * 1000}{40 * 1000}$ 



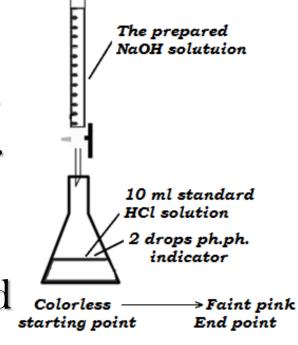
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Mass = 4 g of NaOH. So, we should weigh 4 g of NaOH , dissolve it in water and make up to the mark of 1 liter volumetric flask. Standardization of the prepared NaOH solution

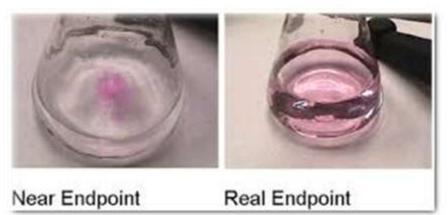
Solutions of NaOH are standardized by titration with std. acids of equivalent normality.

### Method:

- 1- Using a bulb pipet, transfer 10 ml of std. HCl soln.to a conical flask.
- 2- Add 1 2 drops of ph.ph. as an indicator.
- 3- Fill the burette with the prepared Colorle Starting NaOH solution.



# 4- Add NaOH drop by drop into the conical flask until the color of the solution is faint pink.



5- The exact normality of NaOH solution is obtained from the following calculations.

 $\begin{array}{rcl} HCI + NaOH & \longrightarrow & NaCI + H_2O \\ \\ N_1 V_1 & = & N_2 V_2 \\ & & (NaOH) & & (HC1) \end{array}$ 

